



Pleasanton, California, USA
Second Announcement

1. Symposium Scope

The second Asia-Pacific symposium on Tritium science (APSOT-2) will cover the topics of tritium science related to fusion energy research. The objective of the symposium is to provide a forum for an exchange of information on tritium science, technology, engineering, and general experiences with safe tritium handling for fusion energy. This symposium will also offer a timely opportunity to discuss recent international developments.

The Asia-Pacific symposium on Tritium science originates from the China-Japan tritium mini-workshop focused on the understanding of tritium science needed for fusion energy development. This biannual series of meetings was initiated in Mianyang, China in 2006. The China-Japan tritium mini-workshop has become an important forum for scientists to exchange new information about tritium science and technologies for fusion energy. With the current planning for DT operation in ITER and its construction in the next decade, the need to develop a science-based understanding of tritium effects has increased in importance towards the demonstration of fusion power. It was therefore necessary, to expand the China-Japan Tritium mini-workshop to the larger forum offered by the Asia-Pacific Symposium on Tritium science. APSOT-2 will follow the first biannual symposium which was held in Mianyang, China in November 2015.

APSOT intends to attract not only well-experienced tritium experts but also young scientists, engineers and students who are new to this field from all over the world.

2. Topics

The fields of APSOT include tritium physics, chemistry, biology, environmental science, isotopic applications, etc. The topics of APSOT are as follows:

1. Containment / safety
2. Decontamination and waste management
3. Detritiation / purification
4. Isotopic separation and isotope effects
5. Handling facilities
6. Industrial and biomedical applications
7. Behavior in the environment
8. Materials for tritium handling
9. Measurement, monitoring, and accounting
10. Processing, transport, and storage
11. Plasma material interactions and recycling of hydrogen isotopes

3. Language

The working language for the symposium is English.

4. Abstract and Proceedings

4.1 Abstract and registration

Abstracts of no more than 300 words should be submitted electronically by April 30, 2017. Abstracts can be submitted by sending to apsot2@sandia.gov. Abstracts will be collected and distributed at the symposium.

4.2 Proceedings

The proceedings will be published in a special issue of **Fusion Engineering and Design** following a peer-review process. Details will be provided on the symposium website. The manuscript should be submitted by September 8, 2017.

4.3 Format of proceedings:

Normally the manuscript should not exceed 6 pages. The format of the manuscript should follow the directions for publication in **Fusion Engineering and Design**.

5. Committees

James Klein (Chair) SRNL
Yuji Hatano (Co-Chair) Univ. Toyama, Japan

5.1 International Organizing Committee Members

Dean Buchenauer	SNL, USA	Yasuhisa Oya	Shizuoka Univ., Japan
Kaming Feng	SWIP, China	Shuming Peng	CAEP, China
Satoshi Fukada	Kyushu Univ., Japan	Masashi Shimada	INL, USA
Yuji Hatano	Univ. Toyama, Japan	Kyu Min Song	KHNP CRI, Korea
Qunying Huang	INEST, China	Alexander Spitsyn	Kurchatov Inst., Russia
Kijung Jung	KODA, Korea	Yury Streblov	Dollezhal Inst., Russia
James Klein	SRNL, USA	Sei-Hun Yun	NFRI, Korea
Guang-Nan Luo	ASIPP, China		

5.2 Local Organizing Committee Members

Dean Buchenauer (Chair) SNL, USA
Richard Karnesky SNL, USA
Chris San Marchi SNL, USA

5.3 Publication Committee

Masashi Shimada (Chair) INL, USA
Yasuhisa Oya (Co-Chair) Shizuoka Univ., Japan

5.4 General Secretariats

Robert Kolasinski SNL, USA Kazunari Katayama Kyushu Univ.
Email: apsot2@sandia.gov Email: kadzu@nucl.kyushu-u.ac.jp

6. Website

The website for APSOT-2 can be found at <https://connect.sandia.gov/sites/apsot2>. There you can find links for the symposium registration, paying the conference registration by credit card, and signing up for the NIF tour. *For those interested in the NIF tour: Please do this as soon as possible since badging can take 2 months to complete.*

7. Venue

The APSOT-2 symposium will take place at the *Four Points by Sheraton* in Pleasanton, California, close to the San Francisco Bay Area. A tour of the National Ignition Facility at the Lawrence Livermore National Laboratory will be included in the program. *Please note that a separate registration procedure will be needed for all visitors requesting this tour. Sign up early in case you might be interested in this tour.*

8. Accommodation

The conference hotel (Four Points by Sheraton) has arranged for a block of rooms at the US government per diem rate (\$161 plus tax). This rate can be obtained using the following website: please cut and paste into your web browser (note; there is a special character as the last character in this url).

<https://www.starwoodmeeting.com/StarGroupsWeb/res?id=1705170748&key=1F1A0420>

If you have difficulty in using the link to book rooms, call the hotel sales manager and she can connect you with the reservations office to get the symposium rate (925-469-5925). The rooms will be held at this rate until 5 PM local time on August 18, 2017, so please reserve a room early. The hotel features recently renovated rooms, a large garden area, restaurant and bar, ATM, swimming pool, and indoor exercise room.

9. Transportation

The symposium hotel is conveniently located near the Bay Area Rapid Transit (BART) system. Use the Pleasanton East Station (end of line) from the San Francisco Airport. There is a free shuttle between the Pleasanton BART station and symposium hotel. Call the hotel general phone number to request a pickup (925-460-8800).

10. Registration fee

The registration fee for the symposium will be \$280 US dollars; there is no provision for partial payments. Payment can be made by credit card using the Sandia Webpay system:

<https://cfwebprod.sandia.gov/cfdocs/ccpwa/>

Select the third option from the drop down menu for APSOT-2. This fee will cover a copy of the symposium proceedings, admission to technical sessions, lunches, and coffee services during the session breaks. A banquet on Thursday night is also included at the symposium hotel.

11. Key Dates

First announcement	October 10, 2016
Abstract submission	Open February 1, 2017 Due April 30, 2017
Notification to authors	June 1, 2017
Registration	Due August 20, 2017
Hotel Registration	Due August 18, 2017
Manuscript	Due September 8, 2017

12. Tentative Program Overview

Date	AM	PM
Sept. 5 (Tue)	Travel to California	Oral session
Sept. 6 (Wed)	Oral	NIF tour, poster session
Sept. 7 (Thu)	Oral	Oral
Sept. 8 (Fri)	Oral	Oral, travel home